WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

WO 92/09230 (11) International Publication Number: (51) International Patent Classification 5: A1 11 June 1992 (11.06.92) (43) International Publication Date: A47K 10/00

(21) International Application Number:

PCT/KR91/00007

(22) International Filing Date:

9 March 1991 (09.03.91)

(30) Priority data: 1990/18322 U

27 November 1990 (27.11.90) KR

(71) Applicant (for all designated States except US): AMERICAN STANDARD KOREA, INC. [KR/KR]; 398-14, Mokne-dong, Ansan-shi, Kyongki-do 425-100 (KR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): VAN HISE, David, W. [US/KR]; 330-216, Sungbuk-dong, Sungbuk-ku, Seoul 135-020 (KR).

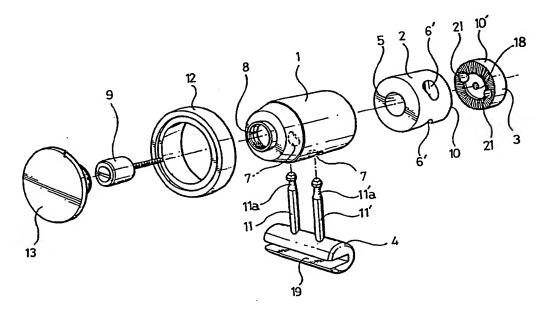
(74) Agent: SUH, Man, Kyu; Yeongdong P.O. Box 146, Seoul 135-080 (KR).

(81) Designated States: AT (European patent), AU, BB, BE (European patent), BF (OAPI patent), BG, BJ (OAPI patent), BR, CA, CF (OAPI patent), CG (OAPI patent), CH (European patent), CM (OAPI patent), DE (Utility model), DE (European patent), DK (European patent), ES (European patent), FI, FR (European patent), GA (OAPI patent), GB (European patent), GR (European patent), HU, IT (European patent), JP, LK, LU (European patent), MC, MG, ML (OAPI patent), MR (OAPI patent), MW, NL (European patent), NO, RO, SD, SE (European patent), SN (OAPI patent), SU+,TD (OAPI patent), TG (OAPI patent), US.

Published

With international search report.

(54) Title: HANGER FOR USE IN BATH ROOM



(57) Abstract

A hanger-support for use in bath room to hang or support various articles such as towels and the like is disclosed. A securing member (3) is secured on the wall of the bath room, and a subassembly consisting of a connecting member (2), an outer case (1) and a hanging member (4) is secured to the securing member by means of a bolt (9). The hanging member is provided with a pair of legs (11, 11'), and these legs are inserted into the leg insertion holes (6, 6', 7, 7') formed on both the outer case and the connecting member. Further, the legs of the hanging member are respectively provided with neck portions (11a, 11'a) through which the head of the bolt (9) is passed to secure the hanging member to the connecting member. The device of the present invention provides multiple functions with a single unit, and therefore, it serves for the usefulness and the aesthetic aspect of the bath room.

9209230A1_I_>

PCT/KR91/00007

15

1

Description

Title of the invention

HANGER FOR USE IN BATH ROOM

Field of the invention

The present invention relates to a bath room hanger which is an accessory of a bath room, and which is for 5 hanging various articles such as towels.

Background of the invention

Conventionally, a bath room is provided with various hangers or shelves for hanging or positioning various 10 articles such as towels, toilet papers, soaps and the like. Such hanging and positioning means have different shapes and separate entities, and therefore, these devices are imperfect in their natures, without having integral functions. Further, they deteriorate the aesthetic feature of the bath room, and, in the case where any one of these devices is lost or damaged, its replacement is difficult.

Summary of the invention

The present invention is intended to overcome the above described disadvantages of the conventional devices. 20

Therefore, it is the object of the present invention to

provide a universal positioning/hanging device which is used in a bath room for hanging and positioning various articles such as towels, soaps and the like.

Brief description of the drawings

The above object and other advantages of the present invention will become more apparent by describing in detail the preferred embodiment of the present invention with reference to the attached drawings in which:

Figure 1 is an exploded perspective view of the device 10 of the present invention;

Figure 2 is a longitudinal sectional view of the device of the present invention, showing its installed state;

Figure 3 is a sectional view taken along the line A-A of Figure 2; and

Figure 4 illustrates the using states of the device of the present invention, in which:

Figure 4A illustrates the case where the device is used as a towel hanger;

20 Figure 4B illustrates the case where the device is used as an illuminating means; and

3

Figure 4C illustrates the case where the device is used as a soap support.

Description of the preferred embodiment

The hanger-support according to the present invention is for installing on the wall of a bath room. hanger-support according to the present invention is constituted such that: a connecting member 2 is provided with a bolt insertion bore 5, and leg insertion holes 6,6' partially open to the bolt insertion bore 5; the connecting member 2 is inserted into an outer caseholes 7,7' and a threaded hole 8; a having hanging member 4 having a certain function is inserted into the hole 7,7' of the outer case 1; a bolt 9 is inserted through the threaded hole 8 of the outer case so as for the bolt head of the bolt 9 to be coupled with the hanging member 4; and a securing member 3 is threadably coupled with the threaded portion of the bolt 9 across the connecting member 2.

respectively on the matching faces of the connecting member 2 and the securing member 3 so as for the joining strength to be reinforced. The hanging member 4 is provided with parallel legs 11,11' on each of which a neck portion is formed. The head of the bolt 9 passes through between the neck portions of the legs 11,11' in

5

10

15

20

25

such a manner that the hanging member 4 should be secured by the head of the bolt 9.

In the drawings, reference code 14 indicates a toilet paper, 15 a towel, 16 a lamp, 17 a soap, 18 a threaded hole, 19 a slot for securing a toilet paper hanger, 20 a fastening screw, and 21 holes for driving threaded nails.

The device of the present invention constituted as above will now be described as to its assembling and disasembling processes referring to Figure 1. First, the securing member 3 is placed at a proper position on the wall of a bath rooom, and then, threaded nails are driven into the holes 21 of the securing member 3, thereby fixing the securing member on the wall.

15 Then, the connecting member 2 is inserted into the outer case 1 in such a manner that the bolt insertion bore 5 of the connecting member 2 should be directed toward the threaded hole 8 of the outer case 1. Thus there is brought a state such that the holes 7,7' of the outer case 1 are matched with the leg insertion holes 6,6' of the connecting member 2. Then the legs 11,11' which are parallelly installed on the hanging member 4 in an integral form are inserted into the holes 7,7'.

PCT/KR91/00007 WO 92/09230

5

10

15

バロフリン・ヘギニン

connecting member 2.

5

Then this subassembly is fitted to securing member 3 which has been attached to the wall of a bath room, and then, the bolt 9 is threadably driven into the thread hole 18 of the securing member 3 through the threaded hole 8 of the outer case 1, thereby firmly fixing the connecting member 2 to the securing member 3. the connecting member 2 is not only secured to the securing member 3 by means of the bolt 9, but also the head of the bolt 9 passes through between the neck portions 11a,11a' of the legs 11,11' of the hanging member 4, thereby securing the hanging member 4 to the

Then a handle 12 is fitted to the tapered portion of the outer case 1, and then, a covering cap 13 threadably secured into the threaded hole 8 of the outer case 1. Here, the handle 12 performs the role of firmly tightening the covering cap 13 and loosening That is, in a state with the covering cap tightened to a certain degree, if the handle 12 20 turned rightwardly, then the covering cap 13 which threadably joined with the threaded hole 8 of the outer case 1 to a certain degree is turned in the same direction due to the frictional force, with the result that the covering cap 13 is firmly tightened.

25 On the other hand, if the handle 12 is turned leftward-

PCT/KR91/00007

ly, the frictional rotating force works to loose the thread of the covering cap 13, with the result that the covering cap 13 is loosened. Then the covering cap 13 can be held by hand to turn and detach it out.

5 The disasembling of the device of the present invention can be performed by applying a reverse process.

Meanwhile, the device according to the present invention provides multiple functions with a single device. That is, if only the hanging member 4 is replaced as shown in Figures 2 and 4, the desired function is obtained. If a toilet paper member is put, it serves as a toilet paper hanger, and if a towel hanger is attached, it serves as a towel hanger. Furger, if an illuminating means such a lamp is attached, it serves as a lamp support, while, if a soap shelf is attached, it serves as a soap support.

Thus, the device of the present invention has the advantage that it can provide multiple functions with a single device. Further, the device of the present invention promotes the aesthetic feature of the bath room as one set of it is enough for a bath room, as well as having usefulness. Further, when a damage occurs, the replacement is easy.

5

10

15

20

25

ことのこう くそう

What is claimed is:

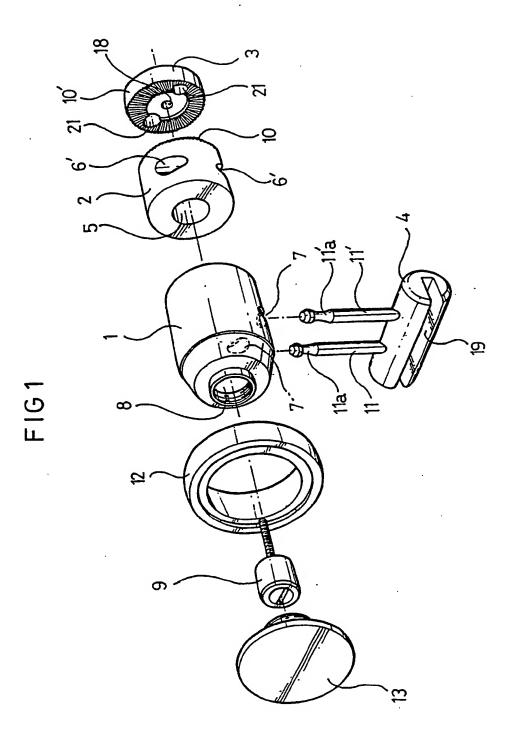
- 1. A hanger-support for being used in a bath room in a state secured on the wall of the bath room, comprising: a connecting member 2 having a bolt insertion bore 5 and a pair of leg insertion 6,6' formed on the circumportion thereof, said leg insertion holes ferential being partially open to said bolt insertion bore 5; an outer case 1 for receiving said connecting member and provided with a threaded hole 8 and a pair of leg insertion holes 7,7', said leg insertion holes 6,6' of said connecting member 2 being matched with said leg insertion holes 7,7' of said outer case 1; a hanging member 4 having a certain function, and for being inserted into said leg insertion holes 6,6', 7,7'; a securing member 3 for being attached on the wall of the bath room; and a bolt 9 for being inserted into said threaded hole 8, and for being fastened into a threaded hole of said securing member 3 so as for said outer case 1 and said connecting member 2 to be fastened to said securing member 3.
- 2. The hanger-support for being used in a bath room as claimed in claim 1, wherein the matching faces of said connecting member 2 and said securing member 3 are provided with annular teeth portions for reinforcing the coupling between said two members.
- 3. The hanger-support for being used in a bath room as

WO 92/09230 PCT/KR91/00007

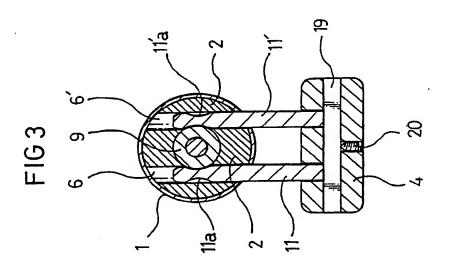
claimed in claim 1, wherein said hanging member 4 is provided with a pair of legs 11,11' having respectively neck portions so as for the head of said bolt 9 to pass through between said neck portions to firmly secure said hanging member 4 to said connecting member 2.

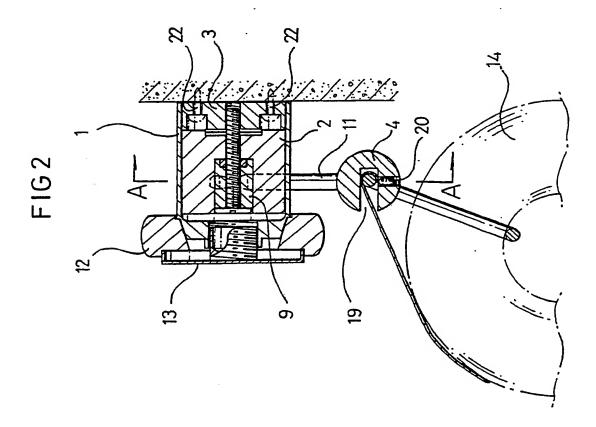
ENSOCCIO: < MIO 9209230A1 I

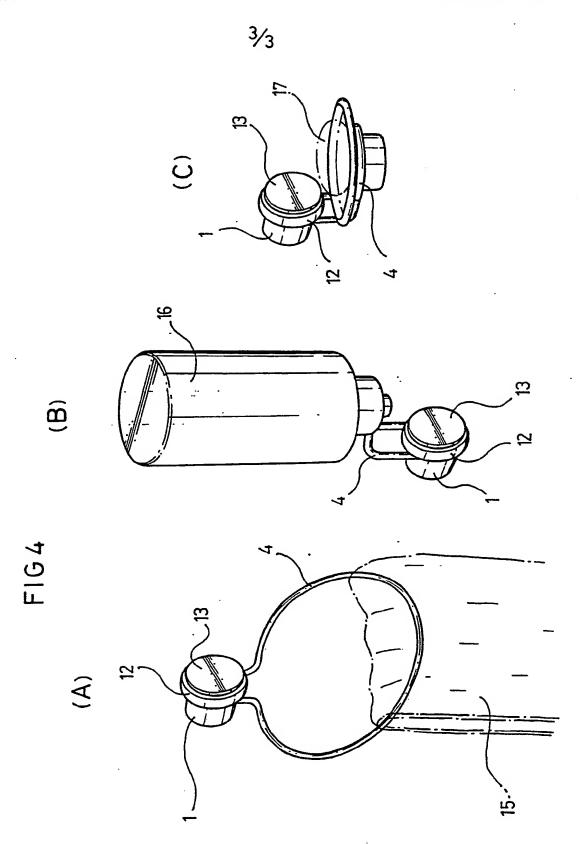
5



2/3







INTERNATIONAL SEARCH REPORT

international Application No PCT/KR 91/00007

| | | THE STATE OF THE S | AR SI/GGG. |
|---|---|--|---|
| I. CLASSII | FICATION OF SUBJECT MATTER (if. several classific | estion symbols apply, indicate all) | |
| | o International Patent Classification (IPC) or to both Nation | nai Classification and IPC | |
| Int. | C1. ⁵ : A 47 K 10/00 | | |
| II. FIELDS | SEARCHED | | |
| | Minimum Documenta | ation Searched 7 | |
| Classification | System C | lassification Symbols | |
| Int. Cl | A 47 K 1/08, 5/00, 5/02, 10/08, 10/10, 10/ | , 10/00, 10/02, 10/04, /12, 10/14 | 10/06, |
| | Documentation Searched other the to the Extent that such Documents a | an Minimum Documentation are Included in the Fields Searched ⁸ | |
| | | | |
| III. DOCUI | MENTS CONSIDERED TO BE RELEVANT | | T |
| Category * | Citation of Document, 11 with Indication, where appro | opriate, of the relevant passages 12 | Relevant to Claim No. 13 |
| i | | | |
| Y | FR, A, 2 063 344 (B. BROILLARI (09.07.71), see claims 1,5,6; | 0) 09 July 1971 fig. 1,2. | (1,3) |
| Y | DE, A1, 1 906 613 (H. MERU) 01 October 1970 (01.10.70), see claim 4; fig, 1,5. | | (1,3) |
| A | EP, A2, 0 067 343 (Roman DIETSCHE KG) 22 December 1982 (22.12.82), see claims 1,3,5; fig. 1,2. | | (2) |
| | | | |
| | | | |
| i 1 | | | |
| 1 | | | |
| Special categories of cited documents: 10 "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date | | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to | |
| whii cita odo "O" | ument which may throw doubts on priority claim(s) or ch is cited to establish the publication date of another tion or other special reason (as specified) tument referring to an oral disclosure, use, exhibition or er means | involve an inventive step "Y" document of particular relevat cannot be considered to involve document is combined with on ments, such combination being in the art. | e or more other such docu- obvious to a person skilled |
| late | in than the priority date claimed | "&" document member of the same | patent family |
| | *IFICATION • Actual Completion of the International Search | Date of Mailing of this International S | |
| 13 A | August 1991 (13.08.91) | 21 August 1991 (21. | .08.91) |
| | nal Searching Authority | Signature of Authorized Officer | |
| AUST | TRIAN PATENT OFFICE | 19a/L | |

Form PCT/ISA/210 (second sheet) (January 1985)

Anhang zum internationalen Recherchenbericht über die internationale Patentanmeldung Nr.

In diesem Anhang sind die Mitglieder der Patentfamilien der im obengenannten internationalen Recherchenbericht angeführten Patentdokumente angegeben. Diese Angaben dienen nur zur Unterrichtung und erfolgen ohne Gewähr.

Annex to the International Search Report on International Patent Application No. PCT/KR 91/00007

This Annex lists the patent family members relating to the patent documents cited in the above-mentioned International search report. The Austrian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Annexe au rapport de recherche internationale relatif à la demande de brevet international n°.

La présente annexe indique les membres de la famille de brevets relatifs aux documents de brevets cités dans le rapport de recherche internationale visé ci-dessus. Les renseignements fournis sont donnés à titre indicatif et n'engagent pas la responsabilité de l'Office autrichien des brevets.

Im Recherchenbericht
angeführtes Patentdokument
Patent document cited
in search report
Document de brevet cité
dans le rapport
de recherche

Datum der
Veröffentlichung
Publication
date
Date de
publication

Mitglied(er) der Patentfamilie Patent family member(s) Membre(s) de la famille de brevets Datum der
Veröffentlichung
Publication
date
Date de
publication

| FR-A - 2063344 | | DE-U - 7034211 FR-A5- 2063344 | 23-12-70 09-07-71 | |
|----------------|----------|--|--|--|
| DE-A1- 1906613 | | DE-A - 1906613 | 01-10-70 | |
| EP-A2- 67343 | 22-12-82 | AT-E - 14831 DE-U1- 8117494 DE-CO- 3265408 EP-A3- 67343 EP-B1- 67343 | 15-08-85 08-10-81 19-09-85 20-04-83 14-08-85 | |
| | | | | |

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS

IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

FADED TEXT OR DRAWING

BLURRED OR ILLEGIBLE TEXT OR DRAWING

SKEWED/SLANTED IMAGES

COLOR OR BLACK AND WHITE PHOTOGRAPHS

GRAY SCALE DOCUMENTS

LINES OR MARKS ON ORIGINAL DOCUMENT

REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.